

# List of All Chemicals

## P Chenopodium quinoa (Chenopodiaceae)

### How used

Medicinal

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
3-O-[BETA-D-XYLOPYRANOSYL-(1-3)-BETA-D-GLUCURONOSYL-6-O-METHYL-ESTER]-OLEANOLIC-ACID	Seed	--	--		Jim Duke's personal files.
3-O-[BETA-D-XYLOSYL-(1-3)-BETA-D-GLUCURONOSYL-OLEANOLIC-ACID	Seed	--	--		Jim Duke's personal files.
CHENOPODIUM-QUINOA-VIRUS-INHIBITOR	Shoot	--	--		Jim Duke's personal files.
CHIKUSETSUSAPONIN-IV-A	Seed	--	1000.0		Jim Duke's personal files.
HEDERA-NEPALENSIS-SAPONIN-F	Seed Coat	--	--		Jim Duke's personal files.
KAEMPFEROL-3-O-[BETA-D-APIOFURANOSYL-(1-2)-ALPHA-L-RHAMNOXYRANOSYL-(1-6)]-BETA-3-GALACTOPYRANOSIDE	Seed	--	--		Jim Duke's personal files.
KAEMPFEROL-3-O-[BETA-D-APIOFURANOSYL-(1-2)-BETA-D-GALACTOPYRANOSIDE	Seed	--	--		Jim Duke's personal files.
MAURITIANIN	Seed	--	--		Jim Duke's personal files.
<b>Activities (2)</b>					
Antiinflammatory					
Antitumor-Promoter	Yasukawa, K., Takido, M., Takeuchi, M., Sato, Y., Nitta, K., and Nakagawa, S. 1989. Inhibitory Effects of Flavonol Glycosides on 12-O-Tetradecanoylphorbol-13-acetate-Induced Tumor Promotion. <i>Chem. Pharm. Bull.</i> 38(3): 774-776, 1990.				
OLEANOLIC-ACID	Fruit	--	--		Jim Duke's personal files.
<b>Activities (64)</b>					
Abortifacient					
AntiHIV IC50=21.8 ug/ml					
AntiHIV EC50=1.7 ug/ml	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.				
AntiPGE2 IC50=24 uM					
AntiTGF-beta IC50=19-24 uM					
Antiallergic					
Antiarrhythmic 40 mg/kg					
Antatherosclerotic					
Antibacterial MIC=625-1,250 ug/ml					
Anticarcinomic	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.				
Anticariogenic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.				
Anticomplement IC40-50 0.01 mM/l gpg	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.				
Anticomplement IC80-90 0.05 mM/l gpg	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.				
Antiedemic IC36=40 mg/kg ipr rat					
Antifertility					
Antigingivitic MIC=625-1,250 ug/ml					
Antihepatotoxic					
Antihyperlipidemic					
Antiinflammatory 40 mg/kg ipr	Aquino, R., De Feo, V., De Simone, F., Pizza, C.*, and Cirino, G. Plant Metabolites. New Compounds And Anti-Inflammatory Activity Of Uncaria tomentosa. <i>Journal of Natural Products</i> , 54(2): 453-459, 1991.				
Antiischemic 40 mg/kg					
Antileukemic	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.				

Antimalarial	IC50=70-89 ug/ml
Antinephritic	IC50=19-24 uM
Antioxidant	Balanehru, S. and Nagarajan, B. 1992. Intervention of Adriamycin Induced Free Radical Damage. <i>Biochemistry International</i> 28(4): 735-744, 1992.
Antioxidant	IC46=10 uM
Antiperiodontic	MIC=625-1,250 ug/ml
Antiperoxidant	IC30=200 ug/ml
Antiplaque	MIC=625-1,250 ug/ml
Antiplasmodial	IC50=70-89 ug/ml
Antisarcomic	
Antiseptic	MIC=625-1,250 ug/ml
Antitumor	
Antitumor (Breast)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
Antitumor (Colon)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
Antitumor (Kidney)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
Antitumor (Lung)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
Antitumor (Pancreas)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
Antiulcer >carbenoxolone	
Antiviral EC50=1.7 ug/ml	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.
Antiviral IC50=21.8 ug/ml	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.
Aromatase-Inhibitor	
Beta-Blocker	
Beta-Glucuronidase-Inhibitor ~100 mg/kg	
COX-2-Inhibitor IC50=295 uM/	
COX-2-Inhibitor	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from <i>Plantago major</i> , a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective 40 mg/kg	
Cardiotonic	
Cyclooxygenase-Inhibitor	
Diuretic	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Elastase-Inhibitor IC50=~15 uM	
Hepatoprotective	Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 211.
Hypolipemic	
Hypotensive	
Immunomodulator	
Leucocytogenic	
NF-kB-Inhibitor	
Phagocytotic	
Piscicide	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prostaglandin-Synthesis-Inhibitor igs mus	
Sedative	
Uterotonic	
Vasopressor	

## OLEANOLIC-ACID

Root

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Jim Duke's personal files.

### Activities (64)

Abortifacient

AntiHIV IC50=21.8 ug/ml

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Inhibitor igs mus

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Vasopressor

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Tissue  
Culture

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Antiischemic 40 mg/kg

Antileukemic

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Antiperoxidant IC30=200 ug/ml

Antiplaque MIC=625-1,250 ug/ml

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Antiplasmoidal IC50=70-89 ug/ml

Antisarcomic

Antiseptic MIC=625-1,250 ug/ml

Antitumor

Antitumor (Breast)

Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. *Am J Chin Med*, 31(1):37-46.

Antitumor (Colon)

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Antitumor (Kidney)

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Antitumor (Pancreas)

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Aromatase-Inhibitor

Beta-Blocker

Beta-Glucuronidase-Inhibitor ~100 mg/kg

COX-2-Inhibitor	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from <i>Plantago major</i> , a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
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Phagocytotic	
Piscicide	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prostaglandin-Synthesis-Inhibitor Igs mus	
Sedative	
Uterotonic	
Vasopressor	

OLEANOLIC-ACID-3-O-BETA-D-GLUCOSIDE	Seed	--	--	Jim Duke's personal files.
PROTEIN	Plant	--	--	Jim Duke's personal files.
QUINOA-SAPONIN-1	Seed Coat	--	7000.0	Jim Duke's personal files.
QUINOA-SAPONIN-10	Seed	--	800.0	Jim Duke's personal files.
QUINOA-SAPONIN-2	Seed Coat	--	200.0	Jim Duke's personal files.
QUINOA-SAPONIN-3	Seed Coat	--	300.0	Jim Duke's personal files.
QUINOA-SAPONIN-4	Seed Coat	--	3000.0	Jim Duke's personal files.
QUINOA-SAPONIN-5	Seed Coat	--	300.0	Jim Duke's personal files.
QUINOA-SAPONIN-6	Seed	--	800.0	Jim Duke's personal files.
QUINOA-SAPONIN-7	Seed	--	200.0	Jim Duke's personal files.
QUINOA-SAPONIN-8	Seed	--	1600.0	Jim Duke's personal files.
QUINOA-SAPONIN-9	Seed	--	200.0	Jim Duke's personal files.
QUINOASIDE-A	Seed	--	--	Jim Duke's personal files.
QUINOSIDE-A	Seed	--	56.6	Jim Duke's personal files.
QUINOSIDE-B	Seed	--	40.0	Jim Duke's personal files.
QUINOSIDE-C	Seed	--	--	Jim Duke's personal files.
QUINOSIDE-D	Seed	--	600.0	Jim Duke's personal files.